



. }

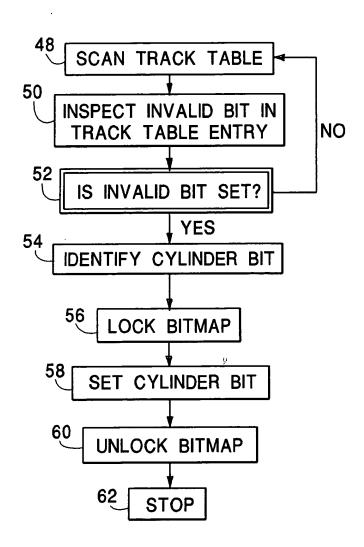


FIG. 2



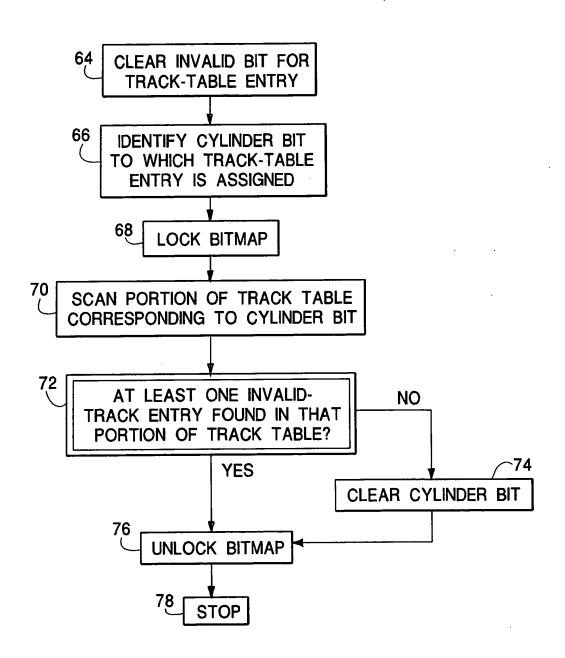


FIG. 3



3

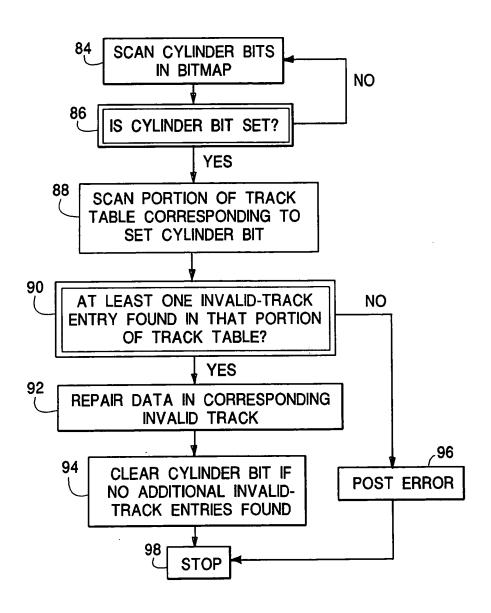


FIG. 4

OIPE CREEK

```
procedure found_invalid_track(T)
                  remainder (remainder (T/15)/8)
                                               at offset O from X
                            pointer to bitmap
                                                                            at offset
                                                                   of D)
                                                           11
                                                        of D)
                                                                  (bit B
        (T/15)/8
                                      lock bitmap
                                                                             write D
                                                                   set
      102 —
104 —
                                                                               108
```

ر. ص

unlock bitmap

```
FEB 2 0 2003
```

```
ф
                                                                   Н
                                                                   track
                                                                    containing
                                                                    in cylinder
procedure fixed_invalid_track(T)
                remainder (remainder (r/15)/8)
                                                                                                                                O from X
                                           from X then
                                                                                                                        0,7
                                                                                                                               offset
                                                                    track T1
                          to bitmap
                                                                                                                        of D)
                                            offset 0
                                                                             is valid
                                                                                      count=count-1
                                                      II
                                                                                                                        ф
                                                                                                                                 at
                                                     of D)
                                                                                                               count=0
                                                                                                                        (bit
         (T/15)/8
                          pointer
                                            at
                                                                      each
                                   lock bitmap
                                                                                               endif
                                                                                                                                -write
                                                                              if T1
                                                                                                        endfor
                                                                                                                         set
                                                              count
                                                     (bit
                                                                       for
                                                                                            119 -
           11
                    II
                                                                                                                                     122
                                                                                                                         121
```

FIG. 6

123 - unlock bitmap

-trace

124

else

endif

endif

```
do
                                                                                                                                                                                                                                                             T1=remainder((0*15*8+remainder(T1/15))/n_tracks)
                                                                                                                                              each track T2 in cylinder containing T1
                                                                                                                                                                                                                                       remainder((T1+15)/n_tracks)
procedure find_next_invalid_track(T)
                                                                                                                                                            is invalid
                                                                                                                       for each bit B1 in D do
                                                                                                                                                                          return T2
                                                    = remainder(T+1)/n_tracks
                                                                                          D=byte at offset O from X
                                                                                                                                     B1=1 then
                                                                                                                                                             if T2
                                                                                                                                                                                       endif
                                       X = pointer to bitmap
                                                                                                                                                                                                     endfor
                                                                                                                                                    for
                                                                                                                                                                                                                 endif
                                                                                                                                     if bit
                                                                                                         -if D≠0 then
                                                                                                                                                                                                                                            11
                                                                                                                                                                                                                             endfor
                                                                                                                                                                                                                                           - T1
                                                                             0 = (T1/15)/8
                                                                                                                                                                                                                                                                                             until T1=T;
                                                                                                                                                                                                                                                                                 endif
                                                                                                                                                                                                                                                        else
                                                                                                                                                                                                                                                                                                          return -1
                                                                  repeat
                                                                                                                                                                                                                                     138
                                                                                                                                                                                                                                                                  129
                                                                                                            130 —
                                                                                   128 –
```